

FIG. 1

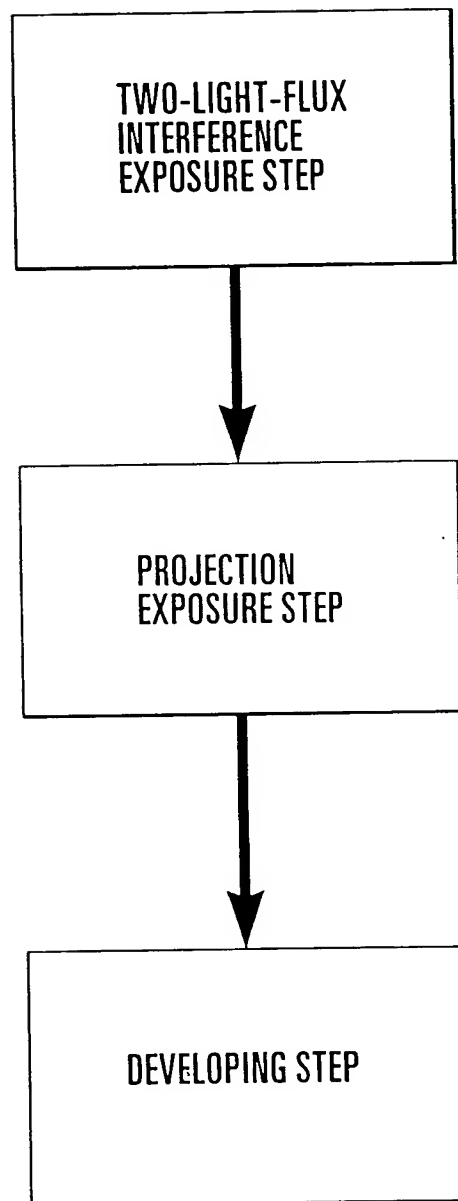


FIG. 2(A)

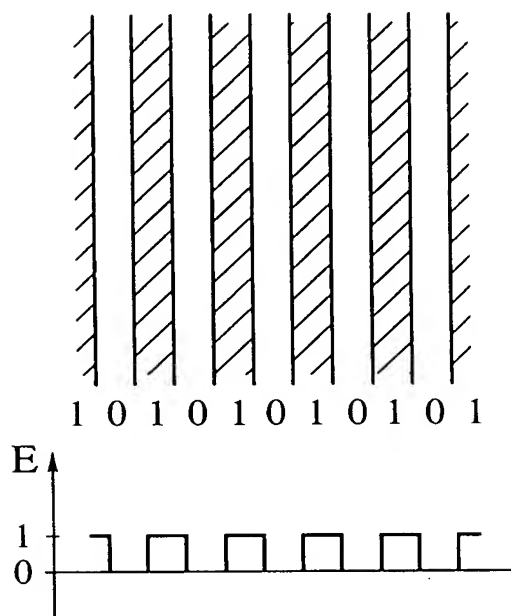


FIG. 2(B)

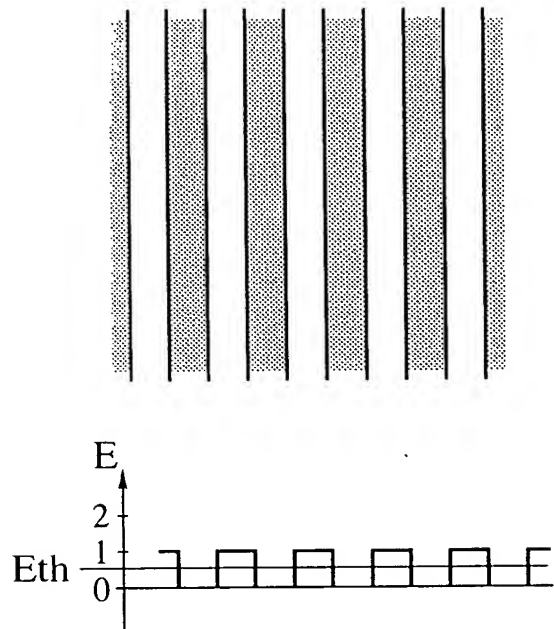


FIG. 3(A)

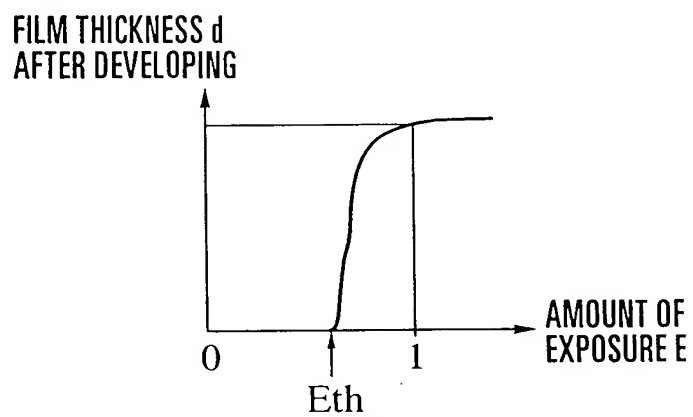


FIG. 3(B)

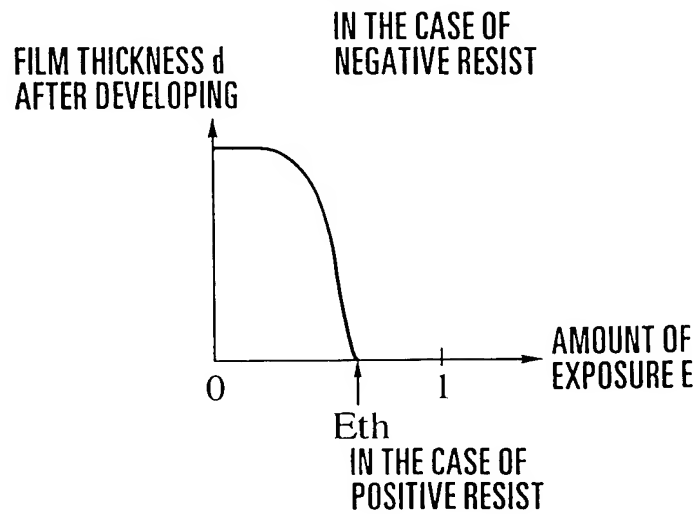


FIG. 4

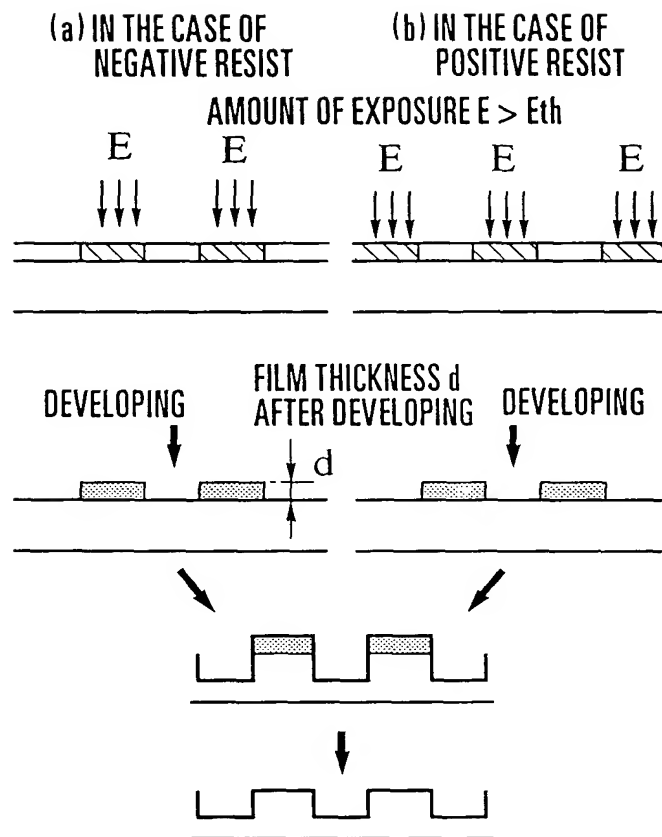


FIG. 5

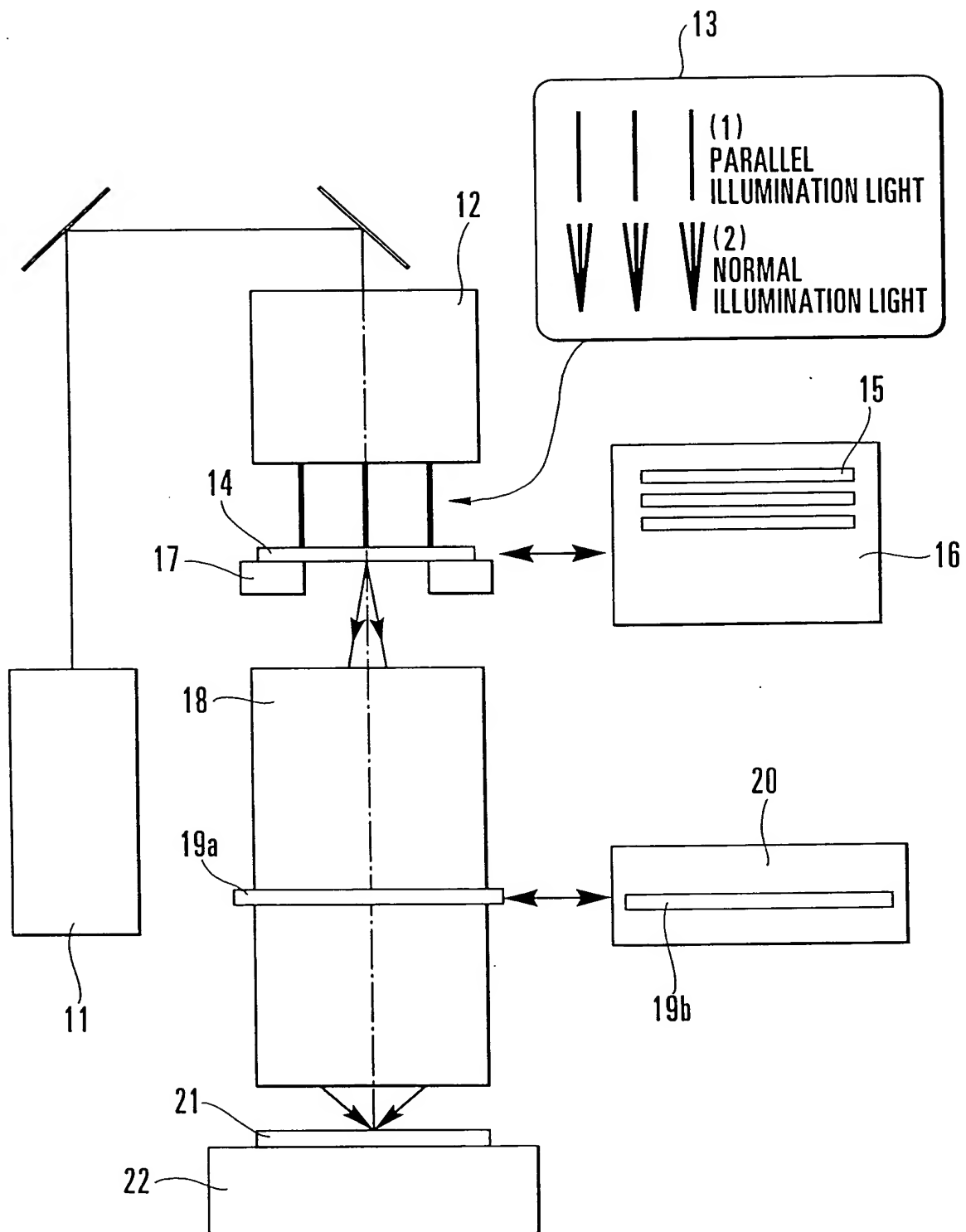


FIG. 6

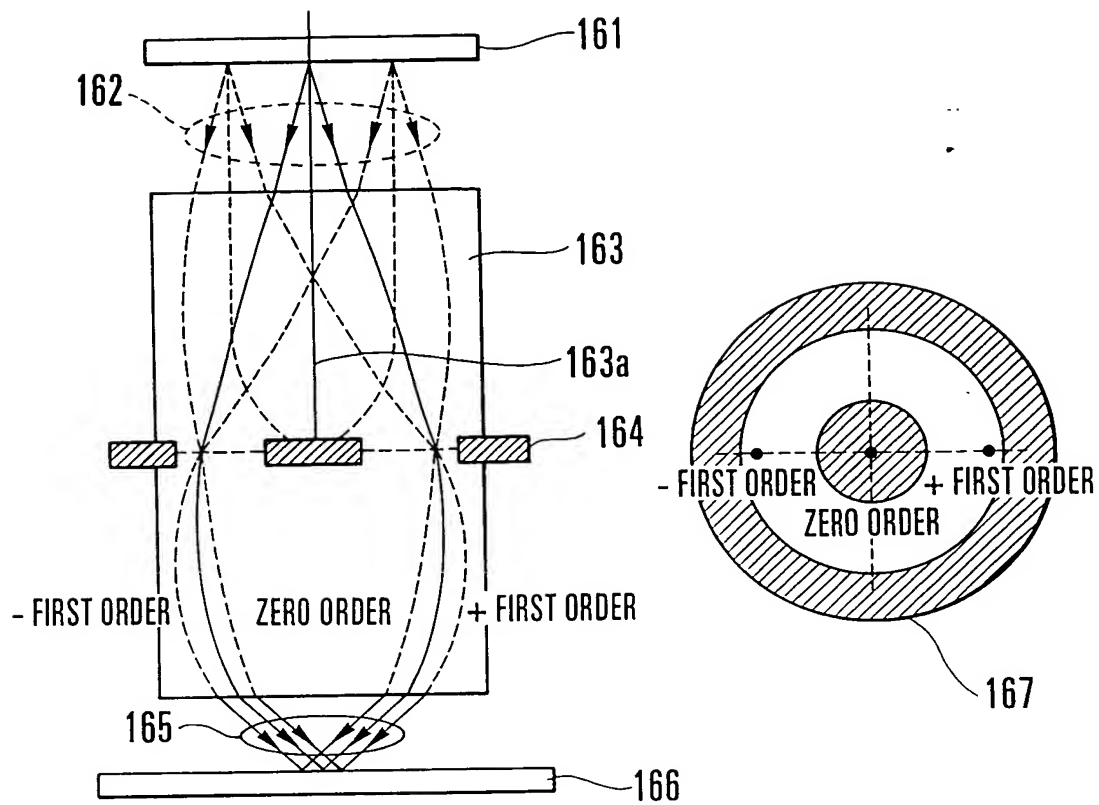


FIG. 7

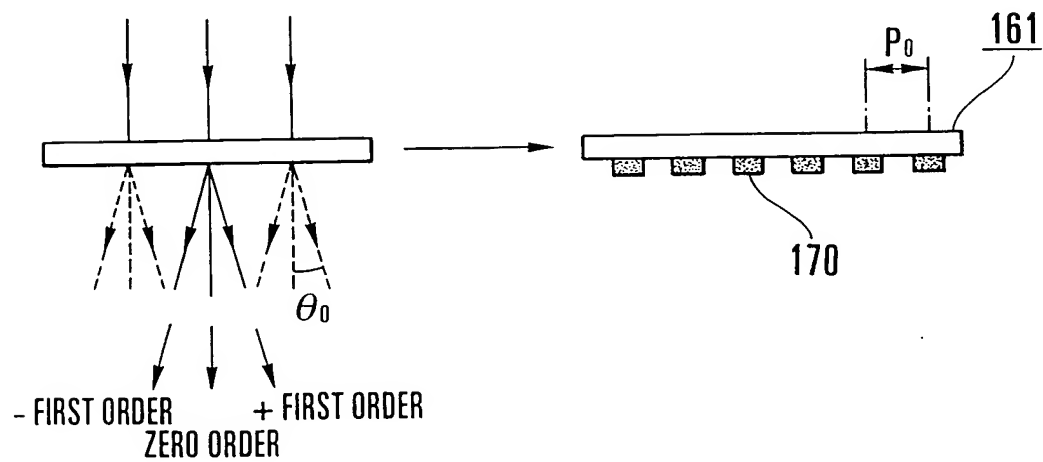


FIG. 8

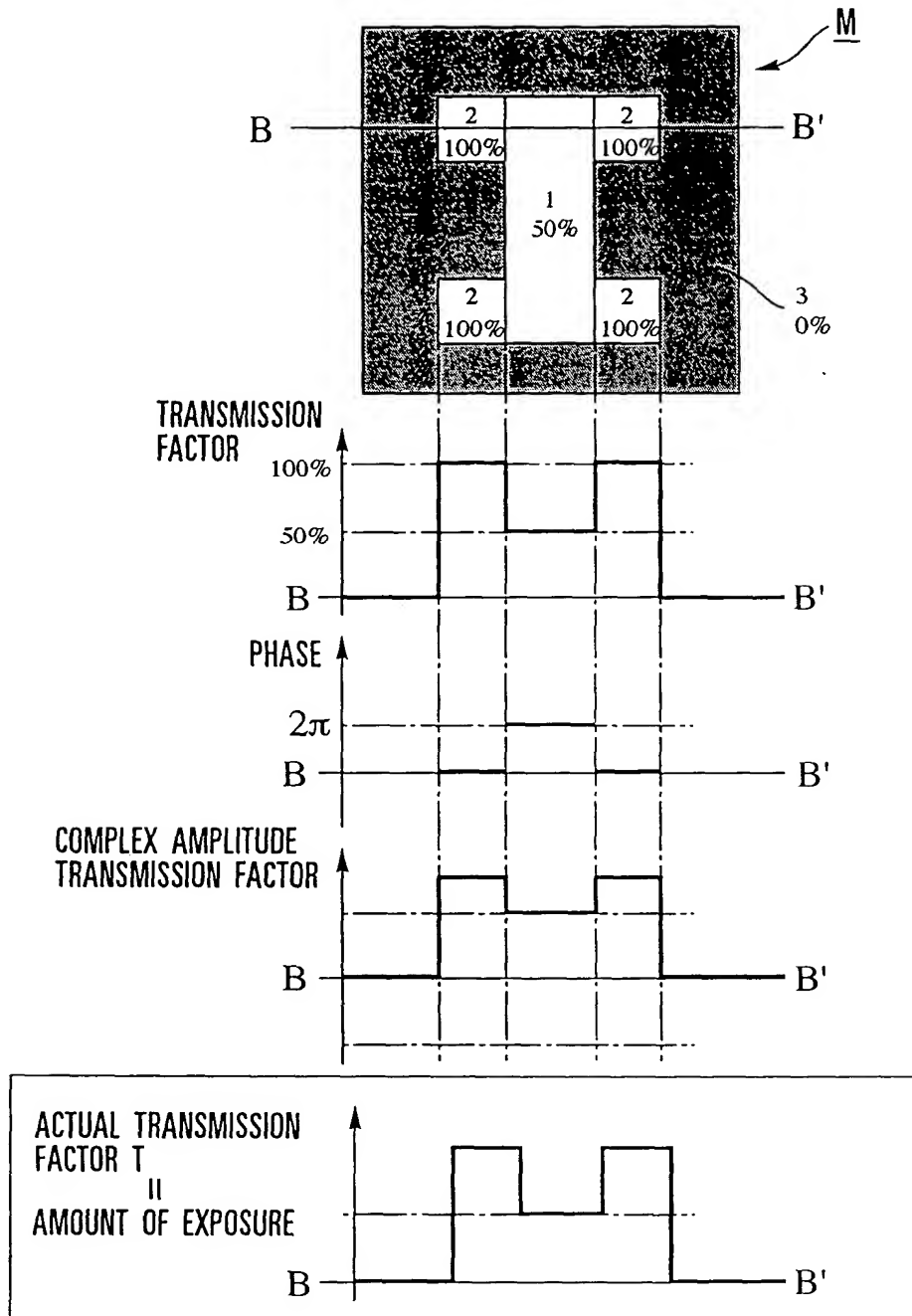
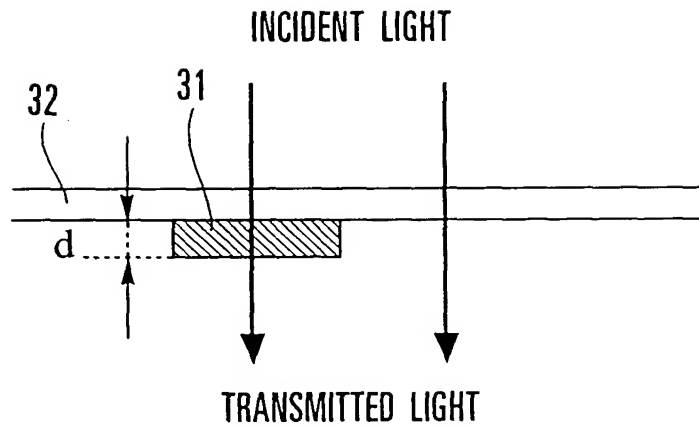


FIG. 9



$$\left\{ \begin{array}{ll} T = e^{-cd} & \leftarrow \text{TRANSMISSION FACTOR} \\ \theta = 2\pi \frac{nd}{\lambda} & \leftarrow \text{PHASE CHANGE} \end{array} \right\} \text{FORMULAS (1)}$$

$$d = \frac{(-\log T)}{c}$$

$$\theta = 2\pi \frac{n(-\log T)}{\lambda c}$$

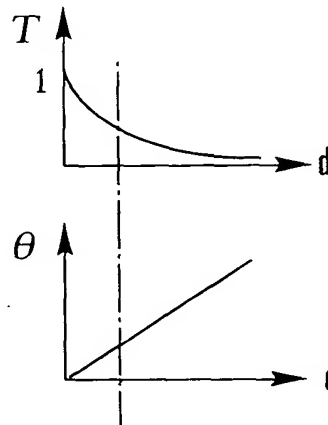
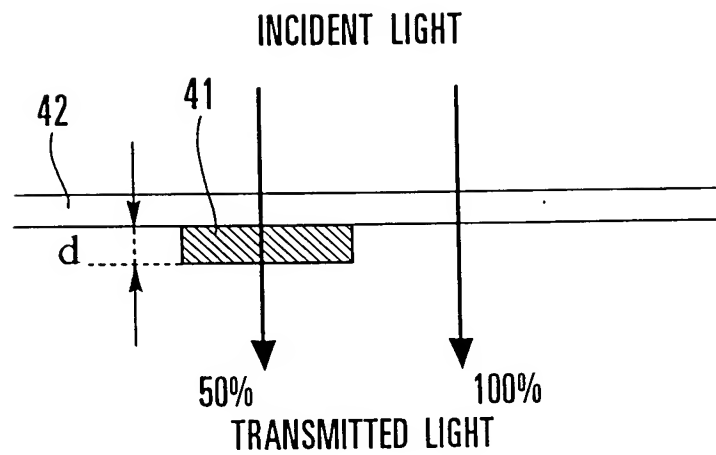


FIG. 10



$$\left\{ \begin{array}{ll} T = e^{-cd} & \leftarrow \text{TRANSMISSION FACTOR} \\ \theta = 2\pi \frac{nd}{\lambda} = 2m\pi & \leftarrow \text{PHASE CHANGE} \end{array} \right.$$

$$d = \frac{m\lambda}{n} = \frac{(-\log T)}{c}$$

$$\boxed{\frac{n}{c} = \frac{m\lambda}{(-\log T)}}$$

FORMULAS (2)

FIG. 11

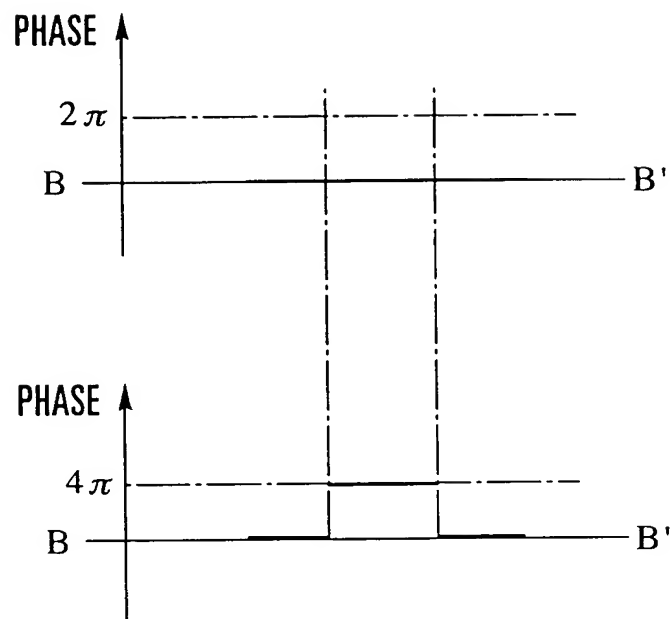


FIG. 12

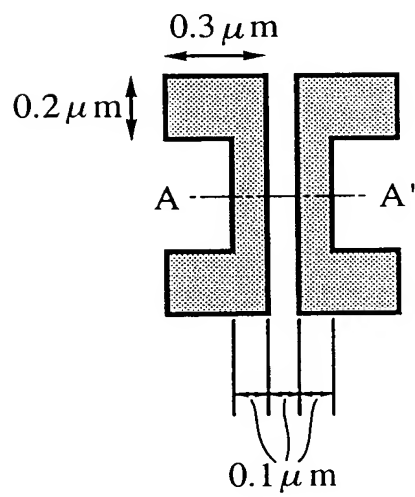
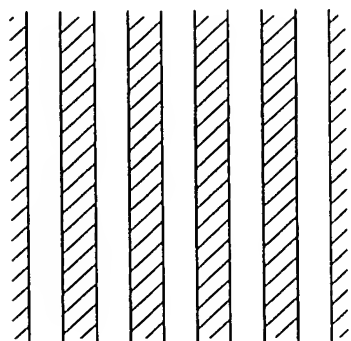
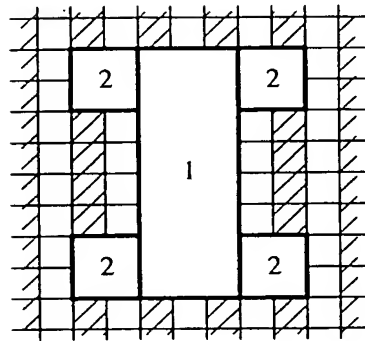


FIG. 13 (A)



1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1
1	0	1	0	1	0	1	0	1	0	1

FIG. 13 (B)



0	0	0	0	0	0	0	0	0	0	0
0	0	2	2	1	1	1	2	2	0	0
0	0	2	2	1	1	1	2	2	0	0
0	0	0	0	1	1	1	0	0	0	0
0	0	0	0	1	1	1	0	0	0	0
0	0	0	0	1	1	1	0	0	0	0
0	0	0	0	1	1	1	0	0	0	0
0	0	2	2	1	1	1	2	2	0	0
0	0	2	2	1	1	1	2	2	0	0
0	0	0	0	0	0	0	0	0	0	0

FIG. 13 (C)

1	0	1	0	1	0	1	0	1	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	1	0	1	0	1	0	1	0	1

1	0	1	0	1	0	1	0	1	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	1	0	2	1	2	0	1	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	3	2	2	1	2	2	3	0	1
1	0	1	0	1	0	1	0	1	0	1

FIG. 13 (D)

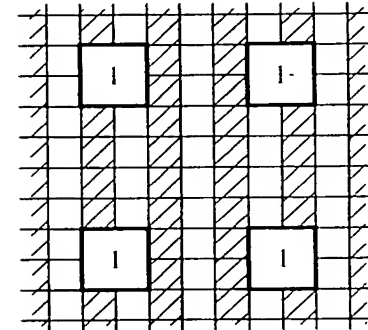
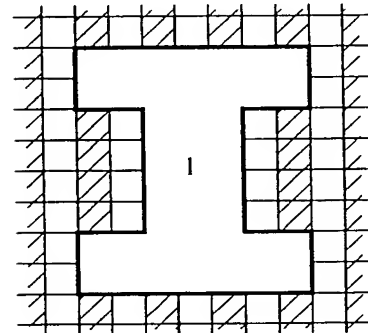
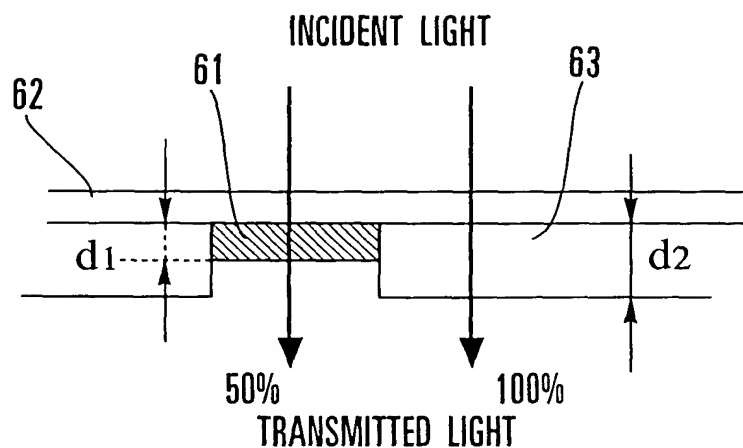


FIG. 14



$$\left\{ \begin{array}{l} T = \frac{e^{-c_1 d_1}}{e^{-c_2 d_2}} \\ \theta = 2\pi \frac{n_1 d_1 - n_2 d_2}{\lambda} = 2m\pi \end{array} \right. \quad \begin{array}{l} \leftarrow \text{TRANSMISSION FACTOR RATIO} \\ \leftarrow \text{PHASE CHANGE DIFFERENCE} \end{array}$$

FORMULAS (3)

$$c_2 = 0, m = 0$$

$$\begin{array}{l} d_1 = \frac{(-\log T)}{c_1} \\ d_2 = \frac{n_1}{n_2} d_1 \end{array}$$

FORMULAS (4)

FIG. 15

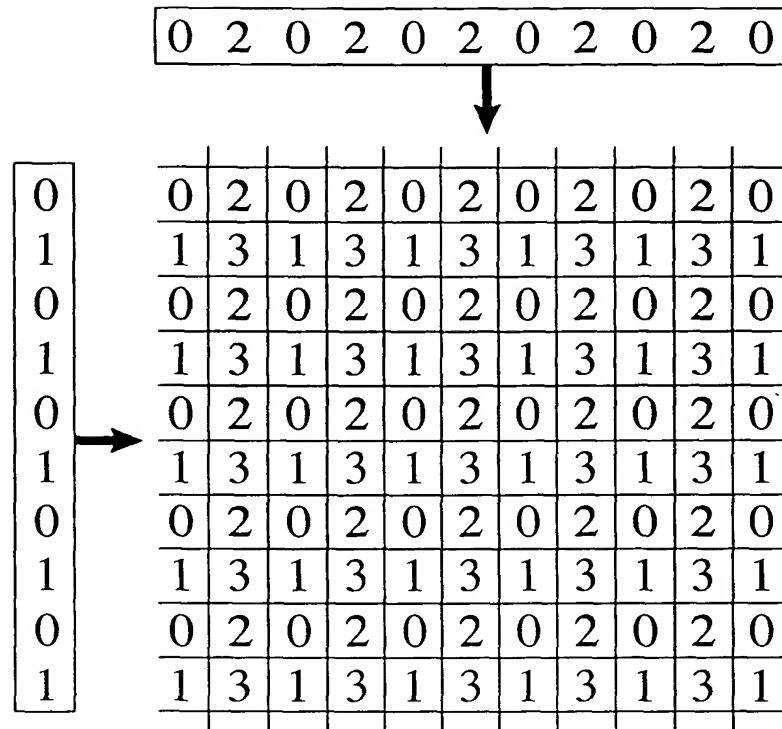


FIG. 16

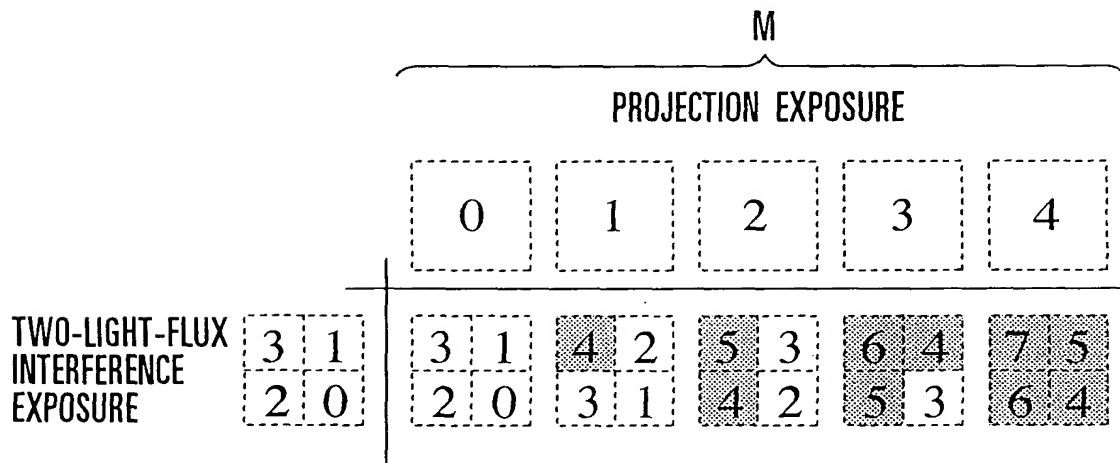


FIG. 17

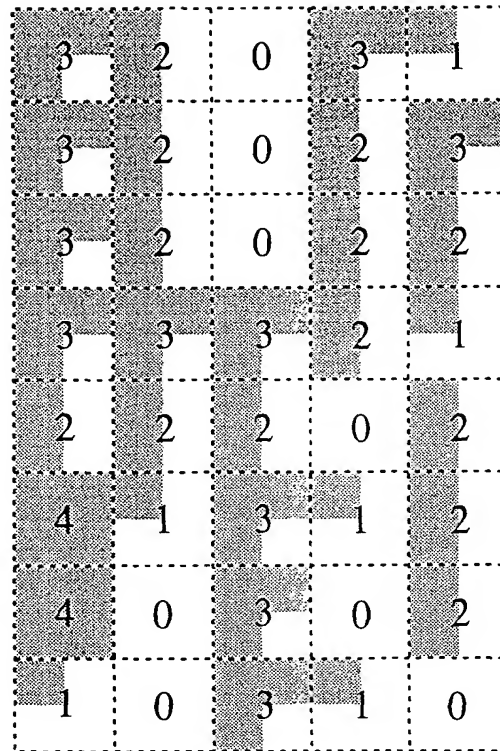
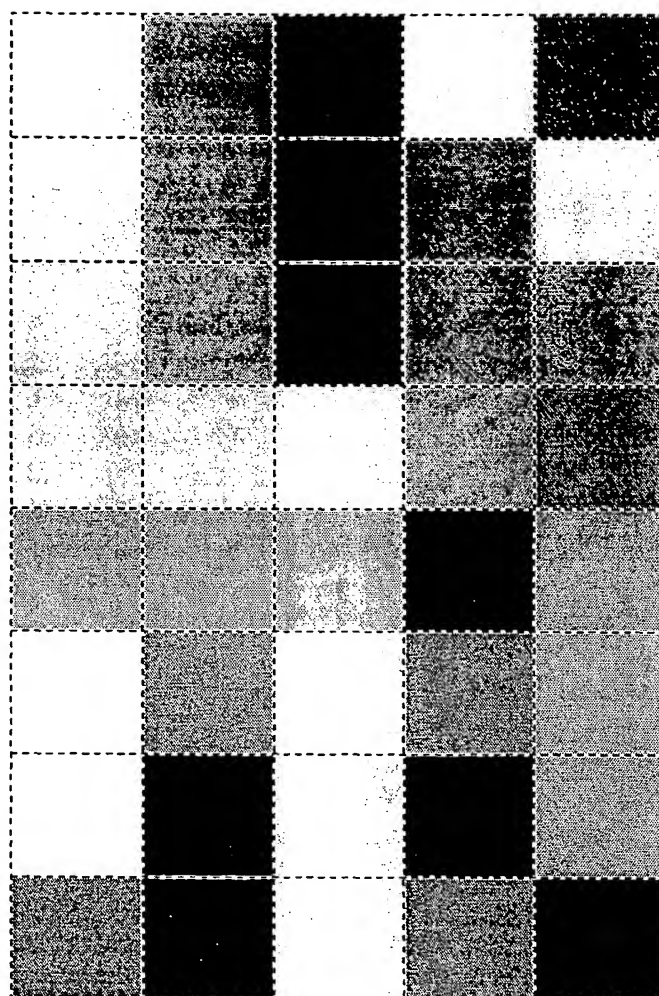


FIG. 18





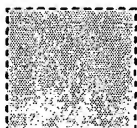
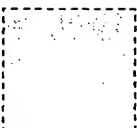

					
AMOUNT OF EXPOSURE	0	1	2	3	4
TRANSMISSION FACTOR	0 %	25 %	50 %	75 %	100 %
PHASE CHANGE	--	6π	4π	2π	0

FIG. 19

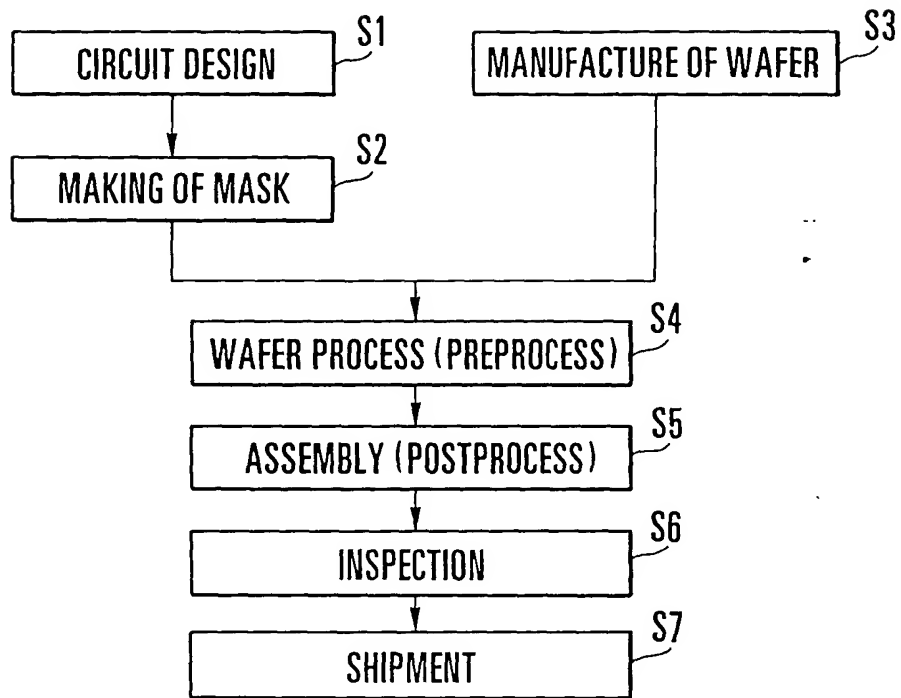


FIG. 20

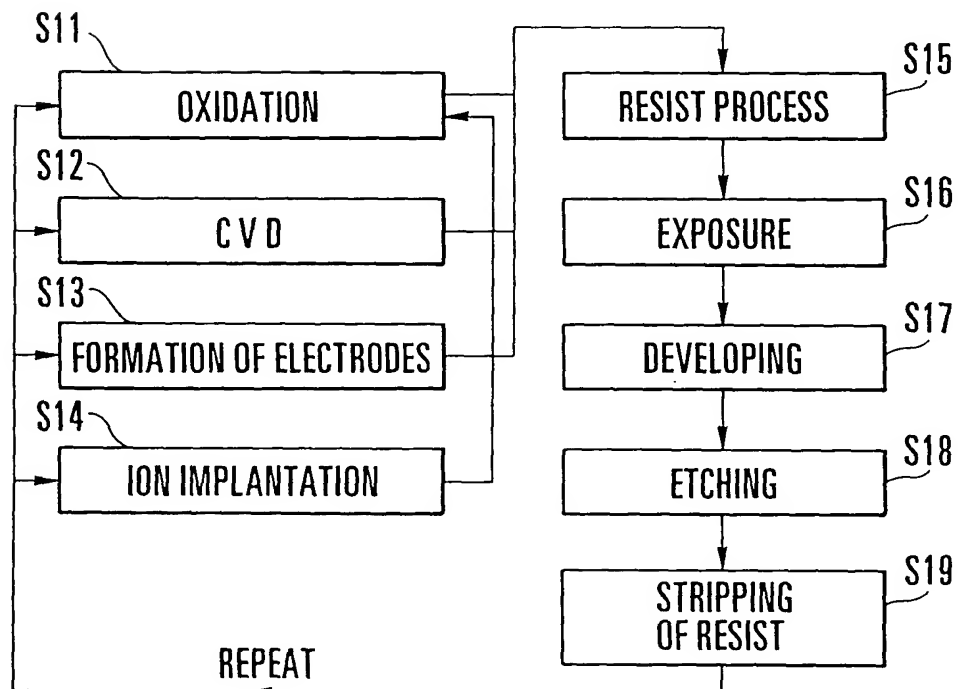
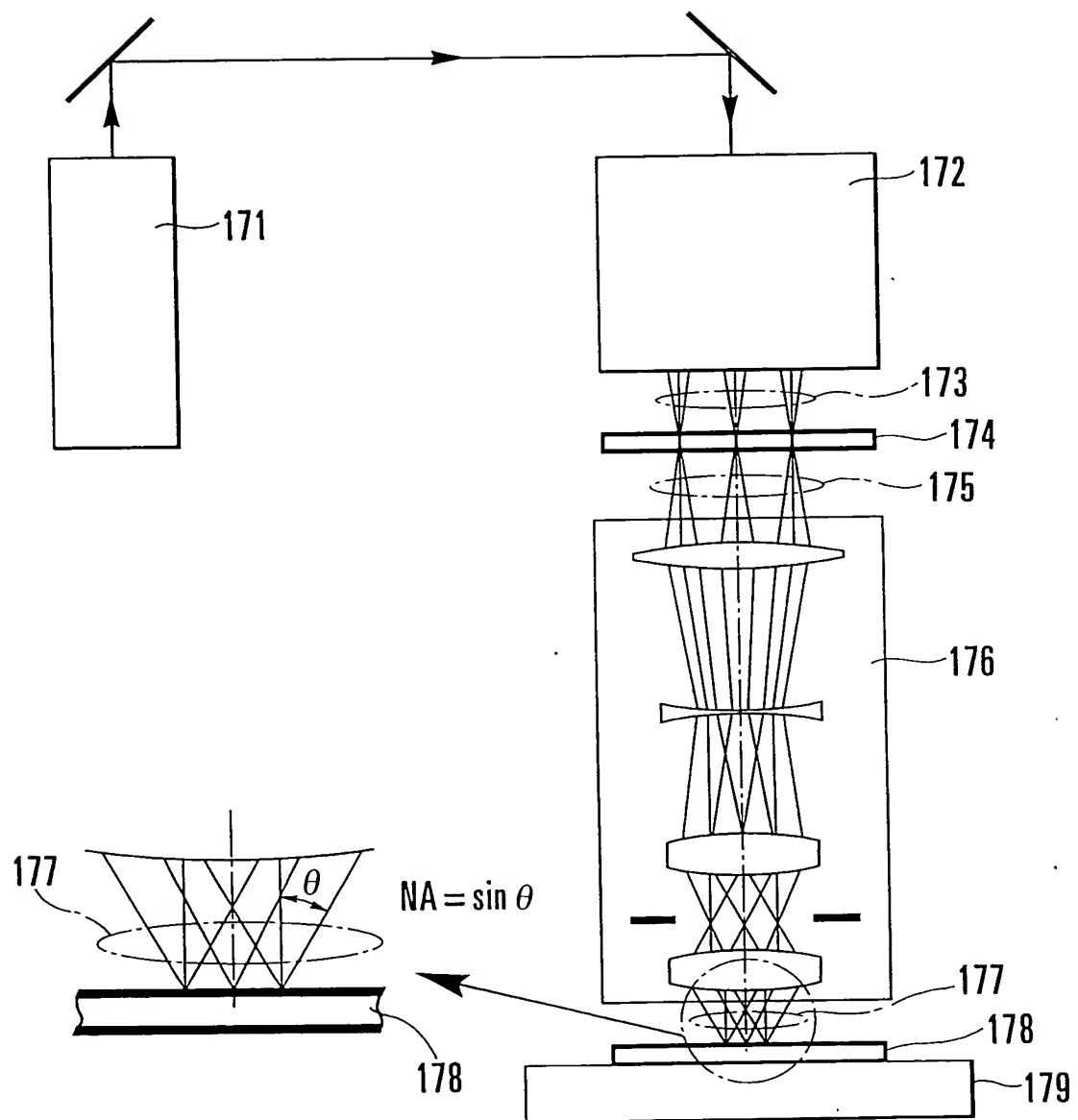
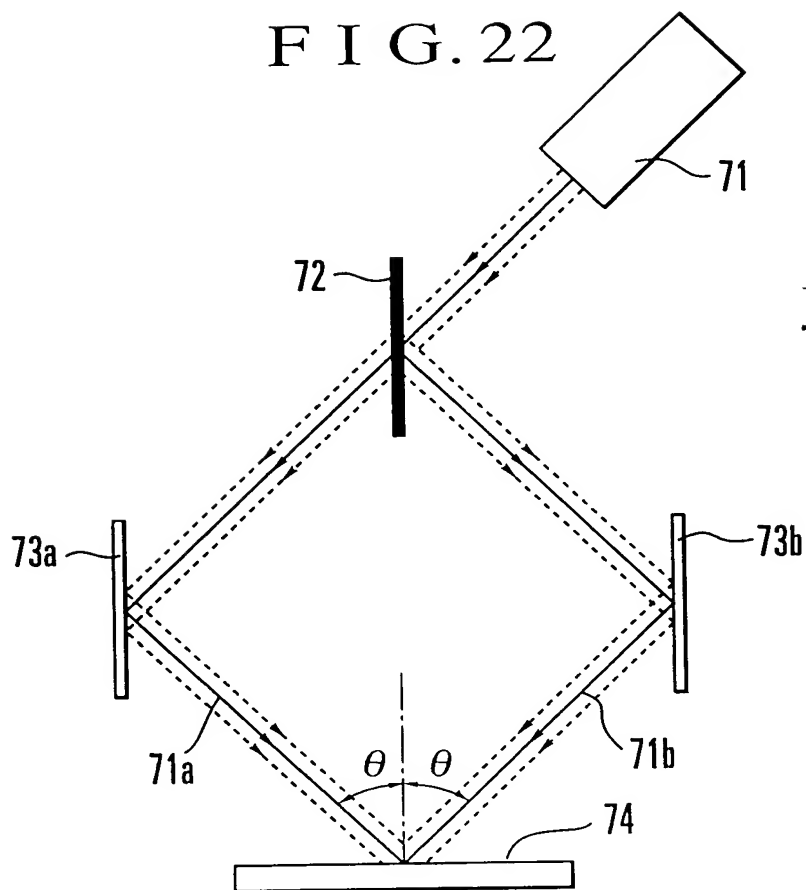


FIG. 21



F I G . 22



F I G . 23

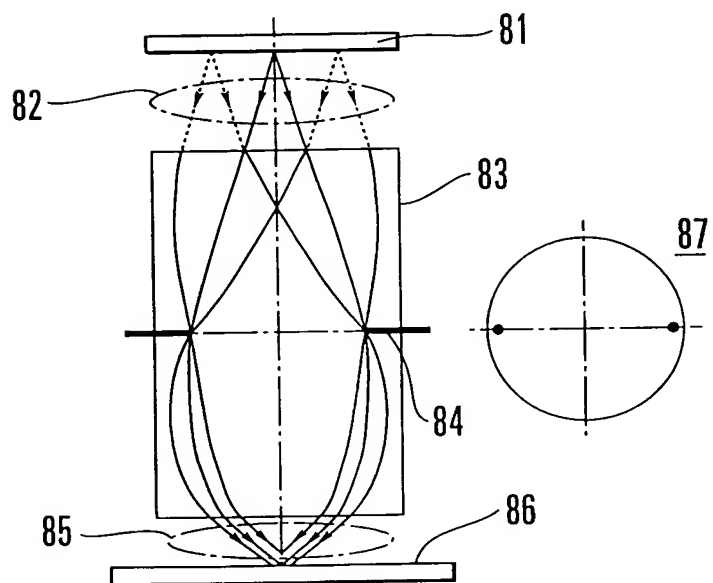


FIG. 24 (A)

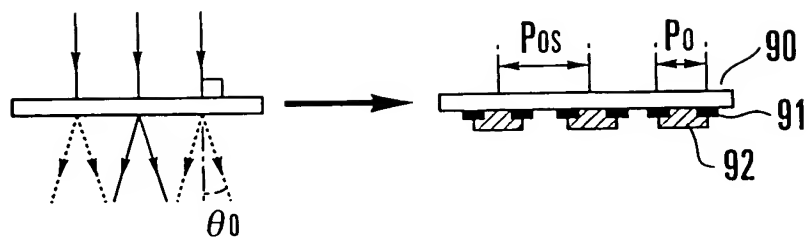


FIG. 24 (B)

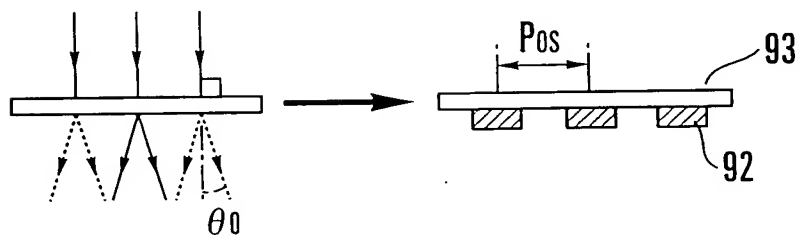


FIG. 25

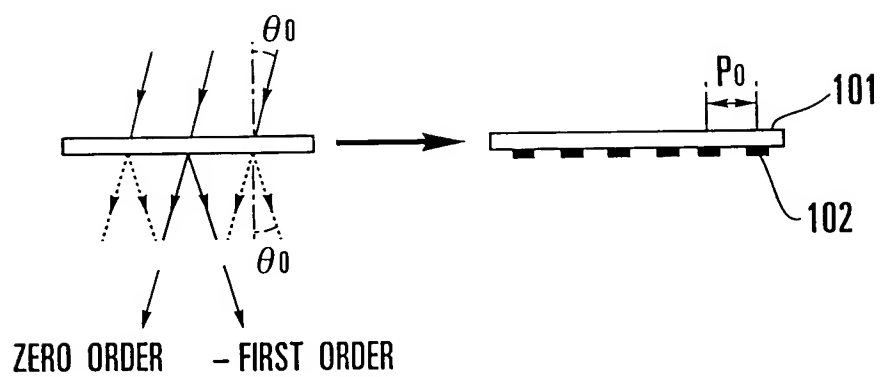


FIG. 26

